



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/963,395	09/27/2001	Hirofumi Nitta	000400-873	9045

7590 02/24/2004

Platon N. Mandros, Esquire  
BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
P.O. Box 1404  
Alexandria, VA 22313-1404

EXAMINER
----------

PEZZLO, BENJAMIN A

ART UNIT	PAPER NUMBER
----------	--------------

3683

DATE MAILED: 02/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/963,395

**Applicant(s)**

NITTA ET AL.

**Examiner**

Benjamin A Pezzlo

**Art Unit**

3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

1) ☒ Responsive to communication(s) filed on After Final Amendment 14 January 2004.

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

4) ☒ Claim(s) 15-24 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

6) ☒ Claim(s) 15-24 is/are rejected.

7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some \* c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

a) ☐ The translation of the foreign language provisional application has been received.

14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.

4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 15-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takata et al. (US 4850655) in view of Hachtel (US6402265).

Takata et al. disclose a hydraulic brake system including a hydraulic pressure generating device K1 for pressurizing brake fluid supplied from a reservoir 12 to apply a brake pressure to a wheel cylinder in response to operation of a brake operating member 3, an auxiliary hydraulic pressure source 11,13 having an accumulator 13 and a hydraulic pump 11, the hydraulic pump pressurizing the brake fluid supplied from the reservoir 102a for generating a power hydraulic pressure, the hydraulic pressure generating device including a master cylinder and a hydraulic booster assisting operation of the master cylinder by using the power hydraulic pressure generated by the auxiliary hydraulic pressure source.

Hachtel discloses an output hydraulic pressure detecting means for continuously detecting an output hydraulic pressure 180 of an accumulator 185 of a auxiliary hydraulic pressure source, vehicle condition detecting means (col. 4 lines 35-40) for continuously detecting an operating condition of the vehicle, driving condition setting means 300 for setting a driving condition of the hydraulic pump based on the operating condition of the vehicle detected by the vehicle condition setting means and a driving control means (see col. 4 lines 40-55) for

Art Unit: 3683

controlling the electric motor to drive the hydraulic pump based on the driving condition of the hydraulic pump set by the driving condition setting means and the output hydraulic pressure of the accumulator of the auxiliary hydraulic pressure source, the driving control means controlling a driving duty of the electric motor to set different driving duties of the electric motor which drive the hydraulic pump based on the driving condition of the hydraulic pump set by the driving condition setting means.

It would have been obvious to one of ordinary skill in the art to which the invention pertains at the time the invention was made to have provided the feedback control of Hachtel in a device according to Takata et al. in order to accommodate brake fade.

Re claim 16, see col. 4 line 39, a speed of zero is less than any predetermined speed threshold.

Re claims 17, 20, and 22, see col. 5 lines 1-5.

Re claims 18 and 23, see pressure sensor 180.

Re claims 19 and 24, see col. 4 line 39.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 15 and 21 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 3683

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A Pezzlo whose telephone number is (703) 306-4617.

The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9326.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

*Benjamin A Pezzlo*  
*2/18/04*

Benjamin A Pezzlo  
Examiner  
Art Unit 3683

BAP  
February 18, 2004